



FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE CITATION  
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Sheet 1 of 3

ATTORNEY DOCKET NO.	SERIAL NO.
3316/0A/US	10/657,034
APPLICANT	
Daniel P. Becker, et al.	
FILING DATE	GROUP
September 5, 2003	Unknown 1625

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
35.	<i>mpd</i>	WO 99/25687	5/27/99	PCT	C07D 211/66		
36.	↑	WO 99/42436	8/26/99	PCT	C07C 239/14		
37.		WO 00/46221	08/10/00	PCT	C07D 405/12		
38.		WO 00/50396	08/31/00	PCT	C07D 211/66		
39.	↓	WO 00/59874	10/12/2000	PCT	C07C 259/06		
40.	<i>mpd</i>	WO 00/69821	11/23/00	PCT	C07D 211/66		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

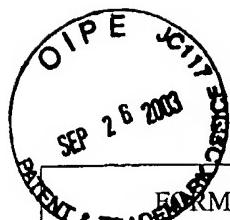
Ref. Desig.	Examiner's Initials	
41.	<i>mpd</i>	Brown, "Synthetic Inhibitors of Matrix Metalloproteinases"; <i>Matrix Metalloproteinases</i> , pp. 243-261 (Academic Press, San Diego, CA, Eds. Park, W.C., & Mecham, R.P., 1998)
42.		Dack, et al., "Preparation of N-hydroxytetrahydropyridylsulfonylacetamides and related compounds as matrix metalloprotease inhibitors," CA 131:44740 (1999)
43.		Denis, et al., "Matrix metalloproteinase inhibitors: Present achievements and future prospects," <i>Invest. New Drugs</i> , 15:175-185 (1997)
44.	↓	Freije, et al., "Molecular cloning and expression of collagenase-3, a novel human matrix metalloproteinase produced by breast carcinomas," <i>J. Biol. Chem.</i> , 269(24), pp. 16766-16773 (1994)
45.	<i>mpd</i>	Gearing, et al., "Processing of tumour necrosis factor- $\alpha$ precursor by metalloproteinases", <i>Nature</i> , 370:555-557 (1994)

Examiner: *Zinne N. Davis*

Date Considered: *5/6/2004*

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EV 311408126 US



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46.	<i>lyn</i>	Gu, et al., "S-Nitrosylation of Matrix Metalloproteinases: Signaling Pathway to Neuronal Cell Death," <i>Science</i> , 297, 1186-1190 (2002)	
47.		Hughes, et al., "Monoclonal antibodies that specifically recognize neoepitope sequences generated by 'aggrecanase' and matrix metalloproteinase cleavage of aggrecan: application to catabolism <i>in situ</i> and <i>in vitro</i> ," <i>Biochem. J.</i> , 305, 799-804 (1995)	
48.		Kenyon, et al., "A Model of Angiogenesis in the Mouse Cornea," <i>Investigative Ophthalmology &amp; Visual Science</i> , Vol. 37, No. 8:1625-32 (July 1996)	
49.		Knight, et al., "A novel coumarin-labelled peptide for sensitive continuous assays of the matrix metalloproteinases," <i>FEBS Lett.</i> , 296(3):263-266 (1992)	
50.		Kuzmic, et al., "High-throughput screening of enzyme inhibitor: simultaneous determination of tright-binding inhibition constants and enzyme concentration," <i>Anal. Biochem.</i> , 286, 45-50 (2000)	
51.		Luckow, et al., "Insect Cell Expression Technology", <i>Protein Engineering: Principles and Practice</i> , pp. 183-218 (John Wiley & Sons, Inc., New York, NY, Edited by J.L. Cleland et al., 1996)	
52.		Luckow, et al., "Efficient generation of infectious recombinant baculoviruses by site-specific transposon-mediated insertion of foreign genes into a baculovirus genome propagated in escherihia coli," <i>J. Virol.</i> , 67(8):4566-4579 (1993)	
53.		McClure, et al., "Matrix metalloprotease (MMP)-13 selective inhibitors for treatment of arthritis deformans and other MMP-related diseases," CA 131:125454 (1999) [CA Plus Accession No. 1999:468334]	
54.		McGeehan, et al., "Regulation of tumour necrosis factor- $\alpha$ processing by a metalloproteinase inhibitor," <i>Nature</i> , 370:558-561 (1994)	
55.		Mitchell, et al., "Cloning, expression, and type II collagenolytic activity of matrix metalloproteinase-13 from human osteoarthritic cartilage," <i>J. Clin. Invest.</i> , 97(3):761-768 (1996)	
56.		Rasmussen, et al., "Matrix metalloproteinase inhibition as a novel anticancer strategy: a review with special focus on batimastat and marimastat," <i>Pharmacol. Ther.</i> , 75(1):69-75 (1997)	
57.		Reboul, et al., "The new collagenase, collagenase-3, is expressed and synthesized by human chondrocytes but not by synoviocytes," <i>J. Clin. Invest.</i> , 97(9):2011-2019 (1996).	
58.		Schwartz, et al., "Synthetic inhibitors of bacterial and mammalian interstitial collagenases," <i>Prog. in Med. Chem.</i> , 29:271-334 (1992).	
59.	<i>lyn</i>	Tang, "ADAMTS: a novel family of extracellular matrix proteases," <i>Int'l J. Biochem. Cell Biol.</i> , 33, 33-44 (2001)	

Examiner: *Zena N Davis* Date Considered: *5/6/2004*

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September 5, 2003	Unknown 625

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60.	<i>ZMD</i>	Woessner, "The Matrix Metalloproteinase Family," <i>Matrix Metalloproteinases</i> , pp. 1-14 (Academic Press, San Diego, CA, Eds. Parks, W.C. & Mecham, R.P., 1998)

Examiner: *Tina N Davis* Date Considered: *5/6/2004*

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**U.S. PATENT DOCUMENTS**

Ref. Desig	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		11/19/99 Office action from abandoned Appl. No. 09/186,410		Barta, et al.		11/5/98
2.		Abandoned Publ. No. 20010014688 (including 12/29/99 Office action, 8/7/00 Office action, 2/16/01 Office action, 11/26/01 Office action, and 6/25/02 Office action from corresponding Appl. No. 09/191,129)	8/16/01	Barta, et al.		11/13/98
3.		Abandoned Publ. No. 20010039287 (including 6/1/00 Office action and 3/29/01 Office action from corresponding Appl. No. 09/256,948)	11/8/01	Barta, et al.	514/330	2/24/99
4.		Pending Appl. No. 09/311,837 (including pending independent claims, 6/14/00 Office action, and 5/3/01 Office action)		Barta, et al.		5/14/99
5.		Pending Appl. No. 09/570,731		Barta, et al.		5/12/00
6.		Allowed Publ. No. 20020177588 (including allowed independent claims, 11/18/02 Office action, and 5/9/03 notice of allowance from corresponding Appl. No. 09/954,451)	11/28/02	Barta, et al.		9/17/01
7.	<i>Boyle</i>	Allowed Publ. No. 20030073718	4/17/03	Barta, et al.		11/21/01

Examiner: *Laura N Davis*

Date Considered: *5/6/2004*

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EV 311408160 US



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Sheet 2 of 4

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U.S. PATENT DOCUMENTS

Ref. Desig	Examiner's Initials	Document Number	Date	Name	Class/Subclass	(If appropriate) Filing Date
		Pending independent claims in Appl. No.				
8.		10/291,983 (a CIP of parent Appl. No. 10/142,737)		Freskos, et al.		11/12/02
9.		Pending independent claims in Appl. No. 10/337,942 (a divisional of Pat. No. 6,451,489)		Barta, et al.		1/7/03
10.	<i>Ajnd</i>	4,595,700	6/17/86	Donald, et al.	514/616	
11.	<i>Ajnd</i> ↑	5,932,595	8/3/99	Bender, et al.	514/317	
12.		6,013,649	1/11/00	Freskos, et al.	514/237.8	
13.		6,300,514	10/09/2001	Takahashi, et al.	560/17	
14.	<i>Ajnd</i> ↓	6,541,489 (including the 12/17/01 Office action, 5/16/02 notice of allowance, and 11/8/02 notice of allowance from corresponding US Appl. No. 09/554,082)	4/1/03	Barta, et al.	514/330	

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Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/Subclass	Translation Yes	Translation No
15.	<i>Ajnd</i>	EP 0 266 182	5/4/88	Europe	C07D 307/32		
16.	<i>Ajnd</i>	EP 0 606 046	7/13/94	Europe	C07D 213/42		
17.	<i>Ajnd</i>	EP 0 780 386	6/25/97	Europe	C07D 309/08		

Examiner: *Kenneth N. Davis*

Date Considered: *5/6/2004*

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18.	<i>mpd</i>	EP 0 930 067	7/21/99	Europe	A61K 31/40		
19.		EP 1 081 137	03/07/2001	Europe	C07D 211/96		
20.		4-338331	1992	JAPAN	A61K 31/365	partial	
21.		WO 90/05719	5/31/90	PCT	C07C 323/62		
22.		WO 93/20047	10/14/93	PCT	C07C 317/44		
23.		WO 94/02466	2/3/94	PCT	C07D 221/14		
24.		WO 94/24140	10/27/94	PCT	C07H 13/04		
25.		WO 95/09841	4/13/95	PCT	C07C 323/60		
26.		WO 95/13289	5/11/95	PCT	C07K 5/062		
27.		WO 95/29892	11/09/95	PCT	C07D 207/327		
28.		WO 96/06074	2/29/96	PCT	C07C 259/06		
29.		WO 96/11209	4/18/96	PCT	C07K 5/06		
30.		WO 97/20824	6/12/97	PCT	C07D 241/04		
31.		WO 97/24117	7/10/97	PCT	A61K 31/19		
32.		WO 98/37877	9/3/98	PCT	A61K 31/16		
33.		WO 98/38163	9/3/98	PCT	C07C 323/60		
34.	<i>mpd</i>	WO 99/09000	02/25/99	PCT	C07C 235/00		

Examiner: *Laura N. Davis*

Date Considered: *5/6/2004*

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Examiner: *Laura N Davis*Date Considered: *5/16/2004*

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